THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

SUMMARY OF DATA OBTAINED IN BASE-LINE STUDY ON LINERBOARD DURING APRIL AND MAY, 1965

Project 1108-13

Report

to

TECHNICAL DIVISION
FOURDRINIER KRAFT BOARD INSTITUTE, INC.

July 20, 1965

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

SUMMARY OF DATA OBTAINED IN BASE-LINE STUDY ON LINERBOARD DURING APRIL AND MAY, 1965

PART I. GENERAL

	Current Report	Previous Report
Period	April-May, 1965	Feb.-March, 1965
No. of mills	19	20
No. of samples	124	126
Nonparticipants:	1. International (Panama City) 2. Olin Mathieson 3. St. Regis (Pensacola) 4. Western Kraft	1. Olin Mathieson 2. St. Regis (Pensacola) 3. Western Kraft

PART II. QUALITY DATA

A. Summary of Data	Report	Current Mill Data Max.	Min.	Av.	12-Month Cum. F.K.I. Av.
Basis weight, lb./1000 sq. ft.	Cur.	43.0	41.9	42.4	42.6
	Prev.	43.5	41.7	42.5	42.7
Caliper, pt.	Cur.	13.5	11.2	12.7	12.6
	Prev.	14.1	11.5	12.6	12.6
Bursting strength, p.s.i.g.	Cur.	123	106	110	111
	Prev.	119	106	111	111
M.D. Elmendorf tear, g./sheet	Cur.	379	262	330	335
	Prev.	365	270	328	335
C.D. Elmendorf tear, g./sheet	Cur.	420	327	377	381
	Prev.	409	319	377	382

B. Trends in Quality Data in Current Report
(Reference being data from previous report)

Basis weight:	Decreased from 42.5 to 42.4	All tests essentially unchanged.
Caliper:	Increased from 12.6 to 12.7	
Bursting strength:	Decreased from 111 to 110	
M.D. Elmendorf tear:	Increased from 328 to 330	
C.D. Elmendorf tear:	No change	

PART III. CALIBRATION DATA

A. Summary of Data

Range, %	Current Report No. of Mills	Current Report %	Previous Report No. of Mills	Previous Report %	6-Month Average, %
		Basis Weight			
± 0.5	10	52.6	16	80.0	76.7
± 1	18	94.7	19	95.0	98.3
± 2	19	100.0	20	100.0	100.0
		Caliper			
± 0.5	1	5.3	2	10.0	6.7
± 1	6	31.6	11	55.0	38.3
± 2	16	84.2	15	75.0	76.7
± 3	16	84.2	17	85.0	88.3
± 4	18	94.7	20	100.0	100.0
± 5	19	100.0			
		Bursting Strength			
± 0.5	7	36.8	3	15.0	20.0
± 1	10	52.6	8	40.0	38.3
± 2	14	73.7	13	65.0	63.3
± 3	19	100.0	16	80.0	76.7
± 4	--	--	18	90.0	88.3
± 5	--	--	18	90.0	93.3
± 7.5	--	--	20	100.0	100.0
		M.D. Elmendorf Tear			
± 0.5	0	0.0	0	0.0	1.9
± 1	0	0.0	2	11.1	11.1
± 2	3	17.6	4	22.2	24.1
± 3	4	23.5	7	38.9	33.3
± 4	6	35.3	9	50.0	40.7
± 5	6	35.3	10	55.6	50.0
± 7.5	11	64.7	11	61.1	63.0
±10	14	82.4	15	83.3	85.2
±12.5	14	82.4	17	94.4	92.6
±15	16	94.1	18	100.0	100.0
±16	17	100.0			
		C.D. Elmendorf Tear			
± 0.5	1	5.9	1	5.6	7.4
± 1	2	11.8	3	16.7	22.2
± 2	4	23.5	6	33.3	38.9
± 3	8	47.1	8	44.4	50.0
± 4	11	64.7	11	61.1	64.8
± 5	11	64.7	12	66.7	75.9
± 7.5	14	82.4	14	77.8	85.2
±10	17	100.0	16	88.9	94.4
±12.5	--	--	17	94.4	96.3
±15	--	--	18	100.0	100.0

B. Trends in Calibration Data

Good agreement with previous data at all levels except the 0.5% level.

Good agreement with previous data at all levels except the 1% level.

Agreement is very good and compares favorably with previous data.

Agreement with previous data is slightly poorer at the 5% level and below but approximately the same at levels above 5%.

Agreement for the current period at almost all levels comparesfavorably with that for the previous period and the previous six-month average.